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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/702,422	11/05/2003	Ernst Engler	A01498	8336
21898 ROHM AND	7590 02/11/201 HAAS COMPANY	EXAM	IINER	
PATENT DEPARTMENT			ROGERS, JAMES WILLIAM	
	IDENCE MALL WEST IIA, PA 19106-2399		ART UNIT	PAPER NUMBER
			1618	
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			02/11/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/702,422	ENGLER ET AL.	
Examiner	Art Unit	
JAMES W. ROGERS	1618	

	JAMES W. ROGERS	1618					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Exercision of time may be available under the provisions of 37 OFB 1.13 after SIX (f) MONTHS from the mailing date of this communication. 1. Failur to ready within the act or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing aeried plant term adjustment. See 37 OFB 1.794(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this co ID (35 U.S.C. § 133).					
Status							
Responsive to communication(s) filed on <u>05 Ag</u> This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final. ce except for formal matters, pro		merits is				
Disposition of Claims							
4) Claim(s) 1.3-8 and 10 is/are pending in the app 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1.3-8 and 10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	n from consideration.						
Application Papers							
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example.	epted or b) objected to by the l drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CF					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a All b Some * c None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application of the process of the proce	on No ed in this National :	Stage				
Attachment(s)							

Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
2). Notice of Eraftsperson's Patent Drawing Segrey (PTO-942).	Parer No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08)	 Notice of Informal Patent Application 	
Paper No(s)/Mail Date	6) Other:	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114 was filed in this application after a decision by the Board of Patent Appeals and Interferences, but before the filing of a Notice of Appeal to the Court of Appeals for the Federal Circuit or the commencement of a civil action. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 04/05/2010 has been entered.

Applicants amendments to the claims filed 04/05/2010 have been entered.

Any objection/rejection from the previous office action filed 12/03/2007 not addressed below has been withdrawn.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1,3,6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mattox (EP 0,490,565 A1, cited previously) as evidenced by product brochure for triton CF-10, http://www.dow.com/products/ product_detail.page?product=1123799&application=1120798.

Mattox teaches isothiazolone concentrate compositions comprising a)

0.01 to 50 parts of 3-isothiazolone (including DCOIT), b) 0.0001 to 10 parts
copper salt and c) optionally 40 to 99.9899 parts organic solvent including di-

glycols. Mattox also teaches compositions containing from 0.01 to 30 weight of the a-c composition above in water with an emulsifier. See page 2 lin 41-page 3 lin 49, examples part 3 and claims 1-3 and 10. Regarding the limitation that the composition contains at least one inorganic filler, Mattox in example 3, a paint formulation, lists the use of Ti-Pure R-902 a titanium dioxide pigment used in coatings as evidenced by the teachings of DuPont's product brochure on titanium dioxide products used in coatings (cited in previous action filed 02/27/2007). Applicants claimed amount range for DCOIT is within the concentration range of isothiazolone for Mattox. A prima facie case of obviousness typically exists when the range of a claimed composition lies inside the range disclosed in the prior art. such as in the instant rejection. Therefor, based on the described overlap above, the instant claims would have been obvious to one of ordinary skill in the art. MPEP § 2144.05. Regarding the new limitation in claims 1 and 6 that the composition comprises a nonionic surfactant in amounts of 0.2-5%, Mattox exemplifies a paint formulation containing .22% Triton CF-10 (calculated from 1.3/581.17 x 100) a commercially available non-ionic surfactant as evidenced by the product brochure for triton CF-10.

Claims 1,3-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mattox (EP 0,490,565 A1, cited previously) in view of Taketani et al. (US 6,010,563) as evidenced by Brake et al. (US 3,817,762).

Mattox is disclosed above. In regards to claims 4 and 8, Mattox as described above teaches using an amount of copper salt from 0.0001 to 10 parts an amount that overlaps applicants claimed lower limit of at least 2 wt%.

Therefor, based on the described overlap above, the instant claims would have been obvious to one of ordinary skill in the art. MPEP § 2144.05. Also the exemplified paint formulation uses natrosol 250, as evidenced by Brake this commercial product is a known thickener. See examples 4-5 of Brake. Furthermore in regards to claims 4-5 and 8 Mattox exemplifies a paint formulation comprising ~2% ethylene glycol (calculated from 12.5/581.17 x 100), while at or slightly below applicants claimed higher limit of 2% the examiner considers these values to be close enough that they would have the same properties. A prima facie case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties. MPEP § 2144.05. While '565 does not mention kaolin in the description or examples, kaolin is simply a mineral found in clay and '565 does disclose the use of Attagel 50 a known clay material, therefore it is obvious that Attagel 50 clay will contain kaolin. Additionally the amounts of TiO₂ and clay exemplified by Mattox are not within the range of 6 to 10% recited in claims 4 and 8. However the percentage or the ratio of specific ingredients in this composition is clearly a result effective parameter that a person of ordinary skill in the art would routinely optimize. Optimization of parameters is a routine practice that would be obvious for a person of ordinary skill in the art to employ. It would have been customary for an artisan of ordinary skill to determine the optimal amount of each ingredient needed to achieve the desired results. Thus, absent some demonstration of unexpected results from the claimed parameters, the optimization of ingredient

amounts would have been obvious at the time of applicant's invention. It is wellestablished that merely selecting proportions and ranges is not patentable absent a showing of criticality. *In re Becket*, 33 USPO 33: *In re Russell*, 169 USPO 426.

Mattox does not describe the use of the specific surfactants claimed in claims 4 and 8

Taketani teaches an anticorrosive paint composition comprising the wetting agent (surfactant, emulsifier) surfinol, which as recited in applicants specification in the examples is a commercial product containing 2,4,7,9-tetramethyl-5-decyne-4,7-diol. See table 2.

Since both references teach anticorrosive paint formulations one of ordinary skill in the art would have a high expectation of success in substituting the non-ionic surfactants, emulsfiers such as Triton CF-110 taught in Mattox with the surfactant surfinol taught in Taketani. It is generally considered to be prime facie obvious to combine or substitute compounds each of which is taught by the prior art to be useful for the same purpose in order to form a composition that is to be used for an identical purpose. The motivation for combining or substituting them flows from their having been used individually in the prior art, and from them being recognized in the prior art as useful for the same purpose. As shown by the recited teachings, instant claims are no more than the use of conventional surfactants used in a paint formulation. It therefore follows that the instant claims define prime facie obvious subject matter.

Claims 1,3-8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mattox (EP 0,490,565 A1, cited previously) in view of Taketani et al. (US 6,010,563) in view of Kostansek et al. (EP 1,060,667 A2, cited in previous office action).

Mattox and Taketani are described above including the reasoning for why the combination is obvious. Mattox is silent melting DCOIT before addition of the other ingredients as required in claim 10.

Kostansek is used primarily for the disclosure within that the method of melting an active (biocides are specifically mentioned), before addition of the other ingredients was already well known in the art at the time of the invention. Kostansek is also used for the disclosure within that the melted active can also contain a solvent that it is soluble in, thus meeting the limitation of claim 10. See abstract, [0002]-[0005].[0008]-[0011] and claims 1-3. The disclosed advantage of producing a suspension concentrate of a biocide in this manner was that the method produced small particles. It was disclosed that the efficiency of the pesticides (species of biocide) is often related to the size of the pesticide particle, typically the smaller the particle the greater the efficiency due to factors such as increased release rate and wider and more uniform coverage upon application.

The motivation to combine the above documents would be to produce an aqueous DCOIT composition by melting/dissolving the biocide prior to addition of other ingredients. The advantage of this methodology would be that the biocide particles produced are small, thus increasing the release rate and providing more uniform coverage of the biocide upon application. One of ordinary skill in the art would have a reasonable expectation of success in combining Kostansek with Mattox since they are related in the same field of endeavor and their composition

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makeup is similar in that they all disclose suspensions containing biocides.

Thus, the claimed invention, taken as a whole was *prima facie* obvious over the combined teachings of the prior art.

Conclusion

No claims are allowed. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James W. Rogers, Ph.D. whose telephone number is (571) 272-7838. The examiner can normally be reached on 9:30-6:00, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Hartley can be reached on (571) 272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James W Rogers, Ph.D./

Examiner, Art Unit 1618